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10/708,617	03/15/2004	Shannon G. Parsons	1007.002	2616
36790	7590	05/01/2007		
TILLMAN WRIGHT, PLLC PO BOX 471581 CHARLOTTE, NC 28247			EXAMINER KING, ANITA M	
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**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.



This is the fourth office action for application number 10/708,617, Display Adjustably Positionable About Swivel and Pivot Axes, filed on March 15, 2004.

***Cancellation of Claims***

Claims 1-35, 37, 38, and 40 have been canceled per applicant's request.

***Claim Rejections - 35 USC § 103***

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 36 and 46 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent 3,950,086 to Schulman et al., hereinafter Schulman in view of U.S. Patent 6,899,442 to Howell et al., hereinafter, Howell, and in further view of U.S. Patent 6,863,252 to Bosson. Schulman discloses an arrangement for variably supporting a display, the arrangement comprising: an overhead track (11); a carriage (14) coupled to the overhead track such that the carriage can be variably positioned along the track; a first arm (17) coupled to and suspended from the carriage such that the first arm can be variably swiveled about a coupling to the carriage; a second arm (19) coupled to the first arm; and a display (21) coupled to the second arm.

Schulman discloses the claimed invention except for the limitations of a second arm being variably positioned in different inclinations to the first arm and such that the second arm can be variably swiveled relative to the first arm about a first swivel axis and subassembly having a swivel member, mounting member, and elongate member,

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and a pair of parallel elongate members joined to form a four-bar linkage parallelogram. Howell teaches an arrangement for variably supporting a display, the arrangement comprising: a first arm (50) mounted to the support (11) by a coupling (12) such that the first arm can be variably swiveled about the coupling to the support; a second arm (66) coupled to the first arm such that the second arm can be variably positioned in different inclinations to the first arm and such that the second arm can be variably swiveled relative to the first arm about a first swivel axis (64); a display (42) coupled to the second arm by a subassembly (67), the subassembly comprising a swivel member (74), a mounting member (78 & 86) affixed to a housing of the display, and an elongate member (70 & 76) extending between and connecting together the swivel member and the mounting member; wherein the swivel member is coupled to the second arm such that the mounting member can be variably swiveled relative to the second arm about a second swivel axis (136), the second swivel axis generally extending in parallel relation to the first swivel axis, and the elongate member is mounted to the swivel member and is mounted to the mounting member for movement about a pivot axis (140); the swivel axis extend through a portion of the elongate member (@70, attachment end to swivel 74); wherein the second arm comprises a pair of parallel elongate members (224 & 226, Fig. 14) joined to form a four-bar linkage parallelogram (Col. 9, line 40ff) such that the first swivel axis and the second swivel axis remain in parallel relation during movement of the second arm between positions having varying inclinations to the first arm; and wherein the second swivel axis extends through the display. It would have been obvious to one having ordinary skill in the art at the time the invention was made to

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have modified the first and second arm arrangement in Schulman to have included the arm arrangement as taught by Howell for the purpose of providing more degrees of adjustability of the assembly in regards to the supporting structure and the display suspended therefrom.

Schulman combined with Howell disclose the claimed invention except for the limitations of the elongate member being mounted to the swivel member for movement about a first pivot axis and the second swivel axis extending through the elongate member. Bosson teaches an arrangement (Fig. 1) for variably supporting a display (1), the arrangement comprising a first arm (3), a second arm (2B1 & 2B2) coupled to the first arm, a swivel member (2C), a mounting member (98) affixed to the housing of the display, and an elongate member (2A) extending between and connecting the swivel member to the mounting member, and wherein the swivel member is coupled to the second arm such that the mounting member can be variably swiveled relative to the second arm about a swivel axis and the elongate member is mounted to the swivel member for movement about a first pivot axis (@6) and is mounted to the mounting member for movement about a second pivot axis (@5). It would have been obvious to one having ordinary skill in the art at the time the invention was made to have modified the subassembly in Schulman combined with Howell to have included the elongate member and mounting member as taught by Bosson for the purpose of increasing the degrees of freedom for adjusting the display relative to the arms to achieve a position desired by the user.

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Claims 39 and 41-43 are rejected under 35 U.S.C. 103(a) as being unpatentable over Howell in view of Bosson. Howell discloses an arrangement for variably supporting a display, the arrangement comprising: a first arm (50) mounted to the support (11) by a coupling (12) such that the first arm can be variably swiveled about the coupling to the support; a second arm (66) coupled to the first arm such that the second arm can be variably positioned in different inclinations to the first arm and such that the second arm can be variably swiveled relative to the first arm about a first swivel axis (64); a display (42) coupled to the second arm by a subassembly (67), the subassembly comprising a swivel member (74), a mounting member (78 & 86) affixed to a housing of the display, and an elongate member (70 & 76) extending between and connecting together the swivel member and the mounting member; wherein the swivel member is coupled to the second arm such that the mounting member can be variably swiveled relative to the second arm about a second swivel axis (136), the second swivel axis generally extending in parallel relation to the first swivel axis, and the elongate member is mounted to the swivel member and is mounted to the mounting member for movement about a pivot axis (140); the swivel axis extend through a portion of the elongate member (@70, attachment end to swivel 74); wherein the second arm comprises a pair of parallel elongate members 224 & 226, Fig. 14) joined to form a four-bar linkage parallelogram (Col. 9, line 40ff) such that the first swivel axis and the second swivel axis remain in parallel relation during movement of the second arm between positions having varying inclinations to the first arm; wherein the first arm is mounted to a wall (14);

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wherein the first arm is mounted to a ceiling (14); and wherein the second swivel axis extends through the display.

Howell disclose the claimed invention except for the limitations of the elongate member being mounted to the swivel member for movement about a first pivot axis and the second swivel axis extending through the elongate member. Bosson teaches an arrangement (Fig. 1) for variably supporting a display (1), the arrangement comprising a first arm (3), a second arm (2B1 & 2B2) coupled to the first arm, a swivel member (2C), a mounting member (98) affixed to the housing of the display, and an elongate member (2A) extending between and connecting the swivel member to the mounting member, and wherein the swivel member is coupled to the second arm such that the mounting member can be variably swiveled relative to the second arm about a swivel axis and the elongate member is mounted to the swivel member for movement about a first pivot axis (@6) and is mounted to the mounting member for movement about a second pivot axis (@5). It would have been obvious to one having ordinary skill in the art at the time the invention was made to have modified the subassembly in Howell to have included the elongate member and mounting member as taught by Bosson for the purpose of increasing the degrees of freedom for adjusting the display relative to the arms to achieve a position desired by the user.

***Allowable Subject Matter***

Claims 44, 45, 47, and 48 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

***Conclusion***

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

U.S. Patent 6,478,274 to Oddsen, Jr.

U.S. Patent 6,695,270 to Smed

Both patents disclose display systems having parallelogram arm supports.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of




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the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anita M. King whose telephone number is (571) 272-6817. The examiner can normally be reached on Monday-Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Carl Friedman can be reached on (571) 272-6842. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

  
Anita M. King  
Primary Examiner  
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April 28, 2007